Detroit Regional Office

22345 Roethel Drive P.O. Box 8022 Novi, MI 48375 (810) 344-1770 Fax (810) 344-2654 Clayton ENVIRONMENTAL CONSULTANTS

February 12, 1996

Ms. Nina Dralyuk
Permit Clerk
Ohio Environmental Protection Agency,
Cleveland Bureau of Air Pollution Control
1925 St. Clair Avenue
Cleveland, Ohio 44114

Dear Ms. Dralyuk:

Enclosed please find three (3) copies of the Permit to Operate renewal application for the vapor degreaser system (VPD-24) located at the Morgan Matroc, Inc. Electro Ceramics Division. The vapor degreaser system is currently operating under Ohio EPA Permit to Operate Application No. 1318031627P019. This application is being filed in order to renew the existing permit. Please note that in November of 1994, Morgan Matroc, Inc. replaced the existing cover, vapor level control thermostat and freeboard chiller on their vapor degreaser with new equipment.

If you have any questions, please call me at (810) 344-1770.

Sincerely,

K. Matthew Kupcak

Project Manager, Air Quality

Environmental Management and Remediation Services

Matthew Hupcak

Detroit Regional Office

Detroit Regional Office

22345 Roethel Drive P.O. Box 8022 Novi, MI 48375 (810) 344-1770 Fax (810) 344-2654 Clayton ENVIRONMENTAL CONSULTANTS

February 12, 1996

Mr. Bill Hocevar Facilities Manager MORGAN MATROC, INC. 232 Forbes Road Bedford, Ohio 44146

Dear Mr. Hocevar:

Enclosed please find four (4) copies of the Permit to Operate renewal application for the vapor degreaser system (VPD-24).

Please review the application and sign three (3) copies for submittal to the Ohio Environmental Protection Agency (OEPA), Cleveland Bureau of Air Pollution Control. The fourth copy should be kept on record at the facility. The three signed copies are to be sent along with the enclosed transmittal letter to:

Ms. Nina Dralyuk
Permit Clerk
OEPA, Cleveland Bureau of Air
1925 St. Clair Avenue
Cleveland, Ohio 44114

H. Matthew Hupcak

Pollution Control

Clayton has appreciated the opportunity to assist Morgan Matroc, Inc. in preparing this application. If you have any questions, or if Clayton can be of further assistance, please call me at (810) 344-1770.

Sincerely,

K. Matthew Kupcak

Project Manager, Air Quality

Environmental Management and Remediation Services

Detroit Regional Office

cc: Kenneth Kupcak

APPLICATION FOR RENEWAL OF PERMIT TO OPERATE APPLICATION NO. 1318031627P019

Submitted to:
Ohio Environmental Protextion Agency
Cleveland Bureau of Air Pollution Control
1925 St. Clair Avenue
Cleveland, Ohio 44114

Prepared by:
Clayton Environmental Consultants, Inc.
Detroit Regional Office

Clayton Project No. 67604.00



FOR OHIO EPA USE ONLY:	
DATE APPLICATION RECEIVED:	
FACILITY ID:	
EMISSIONS UNITIS) ID(S):	

OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) APPLICATION FOR STATE PERMIT(S) TO OPERATE AN EMISSIONS UNIT(S)

(Do not complete application without reading instructions.)

Fa	acility Information:
â.	Applicant Name: Morgan Matroc, Inc.
b.	Facility Name: Morgan Matroc Electro Ceramics Division
c.	Facility Location:
	Street: 232 Forbes Road
	City/Village/Township: Bedford
	County: Cayahoga Zip Code: 44146-5478
d.	Primary Facility Contact Name: Bill Hocevar
e.	Primary Facility Contact Mailing Address/Phone Number:
	Street: 232 Forbes Road
	City/Village/Township: Bedford
	State: Ohio Zip Code: 44146-5478
	Phone Number:(216) 232-8600
f.	OEPA Facility Identification (ID) Number (10-digit number): 318031627
g .	Facility Primary Standard Industrial Classification (SIC) Code Number (4-digit
	number): 3262
h,	Authorized Individual Signature:
	I, being the individual specified in Ohio Administrative Code (OAC) rule 3745-3 O2(B), hereby apply for Permit(s) to Operate (PTO) the emissions unit(s) described herein.
	Bill Hocevar
	Authorized Individual's Name (Please type or print)
	Authorized individual's Signature Date Signed
	Facilities Manager

	1	۷.	<u>en</u>	nissions Unit list	formation (make a copy of pated on page 2):	iges 3-7 and attach for each	
			a.	OEPA Emissio	ns Unit ID (4-digit) number: _	P019	
,			b.	Company ID f	Company ID for Emissions Unit: <u>VPD-24</u>		
			C.	Emissions Uni	t Activity Description: 3 Poli	ng rigs and two drving ovens for	
		•			on (polarization) of cerami		
			ď.	Equipment Des	scription:		
			e.	Most Recent M	on Date (month/year); 01/196 Date (month/year); 01/196 Modification Date (if applicable DAC rule 3745-31-01(J)) (mo		
			f,	Emissions Info		10/1994 .	
·		.		pollutant on a s has been estab	separate line) and for any not	a air pollutant proposed to be later than one ton/year (list each llutant for which an emissions limit regulation or Permit to Install) less than one ton/year.	
			Poli :	utant Name	Proposed Maximum Hourly Emissions (pounds/hour)	Proposed Maximum Annual Emissions (tons/year)	
	•	-	··				
	:						
1 : :			-				
:		ļ		If additional pol	lutants need to be identified		
: ;	:			dditional page(ttached.)	s). Check here if add	copy this page and attach the litional copies of this page are	
		ć	ą. P	roposed Opera:	ting Schedule:		
The state of the s			Δ	verage: Hours Hours	/Day: 24 Maximum: /Year: 5880	Hours/Day: 24 Hours/Year: 6240	

 Supplemental control device information 	on (see instructions)
Control Device #1	
	- Chronian
Control Device #3	
Egress point description codes:	ual egress point on a separate line.
A.) Vertical stack (unobstructed) B. Horizontal/downward stack	C Vertical stack /above up
(A.) Vertical stack (unobstructed)	C. Vertical stack (obstructed)
(A.) Vertical stack (unobstructed) B. Horizontal/downward stack	C. Vertical stack (obstructed) D. Fugitive
A.) Vertical stack (unobstructed) B. Horizontal/downward stack Company ID for Egress Point	C. Vertical stack (obstructed) D. Fugitive Description Code
A.) Vertical stack (unobstructed) B. Horizontal/downward stack Company ID for Egress Point	C. Vertical stack (obstructed) D. Fugitive Description Code
A.) Vertical stack (unobstructed) B. Horizontal/downward stack Company ID for Egress Point	C. Vertical stack (obstructed) D. Fugitive Description Code
A.) Vertical stack (unobstructed) B. Horizontal/downward stack Company ID for Egress Point	C. Vertical stack (obstructed) D. Fugitive Description Code
A.) Vertical stack (unobstructed) B. Horizontal/downward stack Company ID for Egress Point	C. Vertical stack (obstructed) D. Fugitive Description Code

j. A Process or Activity Flow Diagram must be submitted for each emissions unit included in the application. Include the OEPA Emission Unit ID and company identification for the emissions unit on each process or activity flow diagram submitted. Show entry and exit points of all raw materials, intermediate products, by-products and finished products. Label all materials, including air pollution emissions and other waste materials, and identify material and exhaust gas flow rates. Label the process equipment, emissions control equipment, and emissions egress points utilized.

- identification of the specific information (item # and description)
 submitted within the application for the emissions unit which is being claimed as a trade secret;
- ii. an explanation of why the information specified is indeed a trade secret;
- iii. confirmation that the alleged trade secret is not revealed by inspection or analysis of any marketed product (example: "reverse chemistry"); and
- iv. identification of security measures which have been adopted to ensure secrecy, and confirmation that reasonable or enforceable agreements or other confidential relationships prohibiting use or disclosure of the secret existed with those whom the secret was revealed (example: employee secrecy agreements and/or contractor agreements).

Finally, if a confidentiality claim is being submitted, two copies of the application need to be submitted, one completed version with all the information requested and one "sanitized" version containing all information requested except that information upon which a trade secret claim is being made.

n. Emissions Activity Category Forms:

The appropriate Emissions Activity Category (EAC) form(s) must be completed and attached for each emission unit. At least one complete EAC form must be submitted for each emission unit for the application to be considered complete. Please identify each EAC form completed and being submitted with this application for this emissions unit:

EΑ	.C form ID number (see instri	uctions for list of EAC forms)
	3100 Process Operation	iii.
ij,		iv.

-	•	•
•		

:na 140. .4.3555455

FOR DHID EPA USE DNLY	
DATE APPLICATION RECEIVED:	
FACILITY ID:	

EMISSIONS ACTIVITY CATEGORY FORM PROCESS OPERATION

OEPA EMIS	SIONS UNIT ID VPD-2	4 (15	established)
(Note: If there is more to for each additional productional production	than one end product uct (see (nstructions).	for this process, copy a	and complete this pag
1. End product of this	process: Clean, dry	polarized ceramics	
2. Hourry production re	stes (indicate appropr	ate units):	
Average produc Maximum prod	otion: 29 1bs Dotion: 58 1bs		
3. Projectes maximum	annual production (in	d date appropriate units): <u>30,000 lbs</u>
4. Actual annual produ	ction (indicate approp	riste units): 130,000 1	lbs
Type of operation:			•
<u>X</u> continuous			
batch; if ba	tch indicate.		
ការភាពមក	time between cycles	minutes	
			S
E. Make: His used in pro	ocess at maximum ho	uny production rate:	
f. e.era	Physical State at Standard Conditions	Principie Use	Amount (lbs/hr)
<u>Ceramic</u>	Solid	End Product	29.0
		•	
1		West State of the	
	1		

See: Vac South March

 Emissions Unit Information (make a copy of pages 3-7 and attach for emissions unit listed on page 2): 		es 3-7 and attach for each		
	a.		ons Unit ID (4-digit) number: N	<u> </u>
	þ.	Company ID	for Emissions Unit: <u>VPD-24 (mod</u>	ified)
	c.	Emissions Un	it Activity Description: <u>Vapor de</u>	egreasing operation.
	d.	Equipment De	scription: Vapor degreaser equi	ipped with cover, vapor level
			oostat and free board chiller.	
	€.	Most Recent N	ion Date (month/year): 1961 Date (month/year): 1961 Modification Date (if applicable) OAC rule 3745-31-01(J)) (montl	h/year): 10/1994
	f.	Emissions Info		
	Poll	HES DECH CRIST	separate line), and for any pollute of separate line), and for any pollute or leaderal regressions of the pollutant to le	sulation or Pormit to Incomi
			Emissions (pounds/hour)	Emissions (tons/year)
1 60	<u>)C</u>		1.57 lbs/hr	4.62 TPY
			SEE ATTACHMENT A	
ļ 				
		If additional po additional page attached.)	llutants need to be identified, co (s). Check here if additi	opy this page and attach the onal copies of this page are
g	g. F	Proposed Opera	ting Schedule:	
	Å	Average: Hours Hours		lours/Day: 24 ours/Year: 5880

Control Device #1	
Control Device #2	
Control Device #3	
Control Device #3	
each point at which emissions are i	ion: (Provide the following information released into the ambient air from the ual egress point on a separate line.) C. Vertical stack (obstructed) D Fugitive
Company ID for Egress Point	Description Code
/PD-24	D
<u> </u>	
	must be submitted for each emissions

equipment, and emissions egress points utilized.

products, by-products and finished products. Label all materials, including air

pollution emissions and other waste materials, and identify material and exhaust gas flow rates. Label the process equipment, emissions control

- identification of the specific information (item # and description) submitted within the application for the emissions unit which is being claimed as a trade secret;
- an explanation of why the information specified is indeed a trade secret;
- iii. confirmation that the alleged trade secret is not revealed by inspection or analysis of any marketed product (example: "reverse chemistry"); and
- iv. identification of security measures which have been adopted to ensure secrecy, and confirmation that reasonable or enforceable agreements or other confidential relationships prohibiting use or disclosure of the secret existed with those whom the secret was revealed (example: employee secrecy agreements and/or contractor agreements).

Finally, if a confidentiality claim is being submitted, two copies of the application need to be submitted, one completed version with all the information requested and one "sanitized" version containing all information requested except that information upon which a trade secret claim is being made.

n. Emissions Activity Category Forms:

The appropriate Emissions Activity Category (EAC) form(s) must be completed and attached for each emission unit. At least one complete EAC form must be submitted for each emission unit for the application to be considered complete. Please identify each EAC form completed and being submitted with this application for this emissions unit:

ĒΑ	C form ID number (see	instructions	for list	of	EAC	forms)
i.	3109 Solvent Metal	iii.				, •
li.	Cleaning	iv.				······································

FOR OHIO EPA USE D	VEY
DATE APPLICATION R	FORWER
FACILITY ID:	

EMISSIONS ACT	IVITY C	A"EG	ORY FORM
SOLVENT	METAL	CIFA	NING

		SOLVENT METAL CI FANING OEPA EMISSIONS UNIT ID NE (if established)
١,	T: (c	he following type of equipment is used for cleaning and removing soils from metal surface; theck one):
		Cold Cleaner Manual or batch loaded process which uses solvent maintained below its boiling point.
	Ø	Open top vapor degreaser Batch loaded process which uses vaporized solvent for cleaning.
	D	Conveyorized degreaser Continuously loaded conveyorized process which uses either vaporized solvent or liquid solvent for cleaning (vapor or liquid in a container).
2	Co	implete the following table for all metal parts or products cleaned

Description of Pans/Products	Average Quantity Cleaned (per hour)	Maximum Quantity Cleaned (per hour)
Ceramic Products	200	400

2 Con; ete the following table for all solvents used

So rent	Maximum Gallons Used Throughout Year	% Usage for Winter	% Usage for Spring	% Usage for Summer	% Usage for Fall	Vapor Pressure (psia @ 100°F)
Perchlorethylene!	622	25	25	25	25	
	ĺ					N/A
					ĺ	
	1	[

4 Minimum amount of solvent waste disposed of throughout the year: 622 gallons	
--	--

Dither system for reducing solvent emissions, specify:

☐ Refrigerated chiller Maximum operating temperature; _____

			01214 =			1111, 1151	440_D 40C			
12	L Splvent is:	\Box	Sprayed	□ Hea	ted, te	mperature:		_*F		
			Use of pum	pina E	Cam	pressed air s of the above	D Vandi	•		
13	. Describe the	eme	thod for drai	ning exc	ess so	lvent off clean	ed parts			
									•	
14.	Tank dimens	anaia	i			•	15.7	ank Capac	it.	
	Length:		ir	1						
	Width: Height:		in						gai	
4.6										
10.	Freeboard inf									
	Height (distar	nce t	from solvent	surface	to top	edge of the de	greaser	tank):		ח
	Width (width, Ratio (height/	Widt	ነር በያጠ, ይ ኒ ሆነ ነ <mark>ት)</mark> :	e solver	i suna	če)		•		'n
OP	EN TOP VAPO)R D	EGREASER	RINFOR	MATIC	N)		-		
	Identify open									ь
15.	is the vapor d	egre	eser equipp	ed with	a cove	r? 19.When	s the va	por degrea:	ser covered?	
•	D Yes 1		(b			sebor de	greased	l is cover	ed except we eaning batc	n o
	Is the cover po	owe	red?					spray noz		- -
	□ Yes :	es N	lo			□ Yes			nes?	
20.	Dimensions of	f top	openino			D 103	M M	O		
			- p							
	Length: 48.0 Width: 23.5	<u>5</u>								
21.	Freeboard info	smc	tion							
,	Heioht (distanc	ce fr	om salvent a	urfana i						
				spivent	ು ;up e ಶಲಗೆತ್ತ	age of the deg	reaser L	Bnk): <u>17.5</u> _23.5		
'	Ratio (neight/w	wath	<i>)</i> :					0.74		

•	-y - moo ougherse.	edablight	
·			_

25.	Is this	conveyorized	degreeser.	8	Vapor	degreaser?
-----	---------	--------------	------------	---	-------	------------

أرر

t	= 3	if yes, are there any fixed spray nozzies?	No	
□ No	Ç	If no, provide the maximum operating temperature of the solvent:		* 2

1 3

CARBON ADSORPTION SYSTEM

31. Identify perbon adsorption systems and complete the following table:

Ventilation Rate with Covers Open (acfm)	Emissions Rate Averaged Over One Complete Adsorption Cycle (ppmv solvent)
	with Covers Open

ATTACHMENTS

Morgan Matroc, Inc. Electro Ceramics Division

. - !

Abott Vapor Degreaser Tank - VPD-24

	Specific	voc	Annual	Annual	Annual Actual Annual Max. Annual Actual Hourly Max. Hourly	Max. Annual	Actual Hourly	Max. Hourly
Cleaning Solvent	Gravity	Density	Usage	Operating	Operating VOC Emissions VOC Emission VOC Emission	VOC Emissions	VOC Emission	VOC Emission
	(@25 C)	(lb/gal)	(gallons)	Hours	(Tons)	(Tons)	Rate (lb/Hr) Rate (lb/Hr)	Rate (lb/Hr)
Tetrachlomethylene	1.62	13.51	622	2,880	4,20	4.62	1.43	1.57

Equations:

Annual VOC emissions = VOC density (lb/gal) * Annual solvent usage (gallons) / 2000 (lb/ton)

Max. VOC emissions = VOC density (lb/gal) * (Annual solvent usage (gallons) + 10% increase) / 2000 (lb/ton)

Hourly VOC emissions = VOC density (lb/gal) * Annual solvent usage (gallons) / Annual operating hours

Max. Hourly VOC emissions = VOC density (lb/gal) * (Annual solvent usage (gallons) + 10% increase) / Annual operating hours

